## Amendments to the Specification

- 1. The previous abstract was replaced with a new abstract.
- 2. In paragraph [0005], the misspelled word "waveguids" was corrected to "waveguide".
- 3. In paragraph [0005], the misspelled word "die" was corrected to "dye".
- 4. In paragraph [0006], the multi-word "pseudo band gap" was replaced with "stopgap".
- 5. In paragraph [0007], the misspelled word "die" was corrected to "dye".
- 6. In paragraph [0008], the "fluoride" was replaced with "fluorine".
- 7. In paragraph [0008], "and" was replaced with "or".
- 8. In paragraph [0012], the sentences "The infiltration and densification steps were repeated for 10 times to fill most of the voids inside the silica The titania silica composite film on substrate produced in the preceding steps was immersed in a warm template." were moved to the beginning of paragraph number [0013].

9.	In paragraph [0013], the word "template" was deleted.
10.	In paragraph [0018], the word "or" was deleted.
11.	In paragraph [0018], the words "silicon wafer, quartz, or mica" were added.
12.	In paragraph [0019], the word "Falcon" was deleted.
13.	In paragraph [0018], the words "titanium(iv) butoxide, titanium(iv) tert-butoxide, titanium(iv) methoxide, or titanium(iv) propoxide" were added.
14.	In paragraph [0019], the word "Falcon" was deleted and replaced with "centrifuge".
15.	In paragraph [0020], the sentence "Basically, the smaller the machine is the faster it should turn to produce same gravitational effect. And it was kept turning for 30 to 60 minutes". was deleted.
16.	In paragraph [0021], the word "Falcon" was deleted and replaced with "centrifuge".
17.	In paragraph [0032], the word "silicon wafer, quartz, or mica" were added.